

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82454

properties is one of the means of increasing the sugar beet yield in irrigated regions. ... N.I. Orlovskiy

Card 3/3

PROKOF'YEV, A.A.; PRUSAKOVA, L.D.

Coordination of physiological research in the forthcoming seven-year period. Izv.AN SSSR. Ser.biol. no.6:926-934 N-D '60.

(MIRA 13:11)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva Akademii nauk  
SSSR. (PLANT PHYSIOLOGY--RESEARCH)

FETIMOV, N.S., doktor biolog.nauk; PRUSAKOVA, I.D., kand.biolog.nauk  
Study of the physiological and biochemical mechanism of lodging  
in crop plants. Vest.AN SSSR 35 no.6:80-84 Je '65. (MIRA 18:3)  
I. Institut fiziology rastenij im. K.A.Timiryazeva AN SSSR.

ZHOLKEVICH, V.N.; PRUSAKOVA, L.D.; LIZANDR, A.A.

Translocation of assimilates and respiration of conducting tissues  
as affected by soil moisture [with summary in English]. Fiziol.  
rast. 5 no. 4:337-344 Jl-Ag '58. (MIRA 11:8)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR,  
Moskva.  
(Soil moisture) (Plants, Motion of fluids in) (Plants--Respiration)

PRUSAKOVA, L.D.

PETINOV, N.S.; PRUSAKOVA, L.D.; SINITSYNA, Z.A.

Water cycle and productivity of plants [with summary in English].  
Fiziol. rast. 4 no.6: 554-565 N-D '57. (MIRA 10:12)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR, Moskva.  
(Plants—Transpiration) (Soil moisture)

PRUSAKOVA, L. D.

Dissertation: "Directed Modification of the Anatomical Structure of Spring Wheats Under Irrigation." Cand Biol Sci, Inst of Plant Physiology imeni K. A. Timiryazev, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

*Fertilization*

M/ "Anatomophysiological changes in sugar beet in connection with raising of its productivity." N. S. Petinov and L. D. Prusakova (K. A. Timiryazev Inst. Plant Physiol., Moscow). Metod. Rastenii 2, 403-14 (1955).—Under optimum conditions of irrigation and nutrition the increase of productivity of sugar beet occurs as the result of the following factors: enhanced mesophilic properties of the foliage and stems, reduction of the ratio of bound water to free water by increase of the latter, and by reduction of respiration rate and activity of oxidative enzymes to a certain limit. The greatest changes in this respect are seen in plants grown on irrigated plots which are abundantly supplied with P and K. For best results one should use seeds from plants which had been adapted to well-irrigated condition as well as seeds from the best of the irrigated plots. G. M. K.

(1)

PETINOV, M.S., PRUSAKOVA, I.D., PAVLOV, A.N.

Second All-Union Conference on the Biological Foundations of Irrigation Farming. Fiziol.rast. 12 No.4:758-756 Jl-eg '65.  
(MIRA 18:32)

PRUSAKOVA, L.D.

Effect of moisture conditions on tryptophan synthesis and growth  
of leaves in wheat. Fiziol. rast. 7 no.2:170-180 '60.

(MIRA 14:5)

1. K. A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy  
of Sciences, Moscow.

(Wheat—Water requirements)

(Tryptophan)

(Growth(Plants))

PARTSOVSKIY, Lazar' moiseyevich; PRUSAKOV, Mendel' Borisovich; VISLOUKH,  
L.A., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Manual for traction substation operators] Posobie dezhurnomu  
taigovoi podstantsii. Moskva, Gos. transp. zhel-dor. izd-vo. 1956.  
175 p. (MLRA 9:12)

(Electric railroads--Substations)

PRUSAKOVA, L.D.

Symposium on the resistance of farm plants to lodging. Fiziol. rast.  
9 no.5:656 '62. (MIRA 15:10)  
(Lodging(Plants))

OTS, B., inzh.; PRUSAKOV, Yu., inzh.

Repairing the body bottom of the PAZ-652 motorbus. Avt. transp.  
43 no.10:25 O '65. (MIRA 18:10)

BOCHKAREV, Konstantin Stepanovich, general-major; PRUSANOV, Ivan Petrovich, polkovnik; BABAKOV, Aleksandr Aleksandrovich, polkovnik; ROMANOV, I.M., red.

[Program of the CPSU on the defence of the socialist fatherland] Programma KPSS o zashchite sotsialisticheskogo otechestva. 2., perer. i dop. izd. Moskva, Voenizdat, 1965. 173 p. (MIRA 18:12)

PRUSANOV, Ivan Petrovich; BUBNOV, N.A., red.; KONOVALOVA, Ye.K., tekhn.red.

[What the Soviet Armed Forces are protecting] Chto zashchishchaet  
sovetskii voin. Moskva, Voen. izd-vo M-va obor. SSSR, 1958. 77 p.  
(Russia--Armed forces) (MIRA 11:5)

BOCHKAREV, Konstantin Stepanovich, general-mayor; PRUSANOV, Ivan Petrovich, polkovnik; BABAKOV, Aleksandr Aleksandrovich, polkovnik; ROMANOV, I.M., polkovnik, red.; SOLOMONIK, R.L., tekhn.red.

[The program of the CPSU on the defense of the socialist fatherland] Programma KPSS o zashchite sotsialisticheskogo Otechestva. Moskva, Voenizdat, 1963. 141 p.

(MIRA 16:11)

(Russia--Military policy)

PRUSAVA, R.K., brigadir, delegat XXII s"yezda Kommunisticheskoy  
partii Sovetskogo Soyuza

The path to happiness. Rab.i sial. 37 no.12:2 D '61. (MIRA 15:2)

1. Brigada gal'vanistov Minskogo traktornogo zavoda.  
(Minsk-Tractor industry)

PRUSAYTE, Ya. A.

Cand Biol Sci - (diss) "Beasts of the Canidae family of the Lithuanian SSR." Vil'nyus, 1961. 24 pp; (Ministry of Higher and Secondary Specialist Education USSR, Vil'nyus State Univ imeni V. Kapsukas); 250 copies; price not given; list of author's works on p 24 (11 entries); (KL, 6-61 sup, 209)

PRUS-CHACINSKI, T.

Designing the intake for large pumps. p. 67.

SZKŁO I CERAMIKA. (Centralne Zarządy Przemysłu Składowego i Ceramycznego oraz Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Chemicznego). Warszawa, Poland.  
Vol. 10, no. 1, April 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

Unc.

KUCHAREK, M., PRAGUE, J.

Control of the insulation layer thickness of piping. Tovarova  
L4 no.19-10 Ja'64.

1. Statni vyzkumnny ustav ochrany materialu, Praha.

MACHACEK, M.; PRUSEK, J., inz.

Automatic control of rinsing equipment. Strojirenstvi 13 no.1:  
32-38 Ja '63.

1. Statni vyzkumny ustav ochrany materialu, Praha.

BAHENSKY, V.; MACHACEK, M.; PRUSEK, J.

Reduction of water consumption in surface finishing industries.  
Vodni hosp 13 no.6:224-226 '63.

1. Statni vyzkumnny ustav ochrany materialu, Praha.

L 34021-66 EMT(t)/ETI IJP(c) JD  
ACC NR: AP6026584

SOURCE CODE: CZ/0057/65/000/008/0344/0347

AUTHOR: Kachacek, Mirko; Prusek, Jaroslav (Engineer)

22  
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ORG: SVUOM, Prague

TITLE: Automatic regulation of the composition of pickling acids

SOURCE: Hlavní, no. 8, 1965, 344-347

TOPIC TAGS: pickling, automatic regulation, metallurgic machinery

ABSTRACT: The performance of the pickling bath is influenced by two components in the bath: free acid and the salts of the metals dissolved in the bath. The authors describe an automatic regulator of the composition of the bath produced in Czechoslovakia, and marketed under the trade name "Mela". Details of the construction of the apparatus are described. Temperature, conductivity, and density of the solution are recorded; the evaluation is made automatically from the inputs fed to the analyzer in the form of electrical impulses. The apparatus has three regions of operation: 170-220 g/l  $H_2SO_4$  and 0 - 60 g/l Fe; 250 - 300 g/l acid, and 0 - 60 g/l Fe; and 40 - 100 g/l of acid and 0 - 40 g/l of Cu. There are two ways in which the bath can be controlled: either the acid is added continuously, and the bath is periodically regenerated, or a slip stream of the bath is regenerated continuously. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 001 / Sov REF: 001

OTH REF: 006  
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2L286

Z/032/61/011/008/005/009

E073/E535

11800

AUTHORS: Sýkorová, V., Dvorák, J., Průsek, J. and Vychytíl, P.

TITLE: Continuous anodic oxidation of aluminium conductors

PERIODICAL: Strojírenství, 1961, Vol.11, No.8, p.634

TEXT: A technology of continuous oxidation of aluminium conductors was developed in which a superimposed current is applied at a current density of about  $150 \text{ A/dm}^2$ . Within 15 sec an oxide layer about  $8 \mu$  thick forms which fully satisfies electrical requirements. The use of the extremely high current densities was made possible by feeding in the current through a liquid and using a special cooling system. The quality of the oxide layer is monitored by an automatic unit. A three-pole optical and sound signalling system gives information to the attending personnel on the state of the process. The oxide layers can withstand temperatures up to  $300^\circ\text{C}$  so that they form an insulation of the highest thermal class. In contrast to organic insulating materials, these layers also have a high resistance to high energy radiation in atomic reactors, accelerators etc. The breakdown

Card 1/2

Continuous anodic oxidation ...

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E073/E535

voltage of an 8  $\mu$  layer is about 200 V r.m.s. and can be doubled by impregnation. The thus insulated conductors can be wound by conventional methods with a minimum curvature of eight times the wire diameter. These aluminium conductors enable increasing the thermal class of the windings and reducing the total weight of electrical machinery; manufacture of these conductors has commenced.

1960, Prague: SVUOM 45/60

[Abstractor's Note: Complete translation.]

Card 2/2

MACHÁČEK, M.; PRUŠEK, J.

Transistor level indicator. Automatizace 7 no.11:297-299 N '64.

I. G.V.Akimov State Research Institute of Material Protection,  
Prague.

PRUSEK, Wieslaw

Iron metabolism in the organism and deficiency states, particularly in infants. Wiad. lek. 18 no.20:1575-1578 15 0 '65.

PRUSEK, Wieslaw; MASZKIEWICZ, Waldemar

A case of Colley's anemia (thalassemia minor) in a 2-year-old boy. Wiad. lek. 18 no.4:345-350 15 F '65

1. Z Oddzialu Dziecieciego Szpitala Wojewodzkiego we Wrocławiu  
(Ordynator: dr. R. Pofelis).

CHILMAN, A.; PRUSEK, W.

Health service in rural districts of Bulgaria. Wiss. lek. 18  
no. 7-623-624 1 Ap '65

POLSKA, K.O., A.P.

"Combinational Connections in Schizophrenic Cases," Ukr. vestikrefleksologii  
i oksp. pedag. [Ukrainian Herald of Reflexology and experimental Pedagogy]  
no 1, 1925.

PRUSENKO, V.S.; SHIFETIN, L.I.

Calculating the adjustment of the multiplying device for controlling  
the rate-of-flow ratio. Priborostroenie no.7:1-3 J1 '61.  
(MIRA 14:6)

(Electric controllers)

L 16852-66 EWT(a)/EWP(v)/EWP(k)/EWP(l)/EWP(1)  
 ACC NR. AM5025519 Monograph

Prusenko, Vladimir Sidorovich

UR/  
65  
63  
BT/1

Pneumatic transducers<sup>10</sup> and secondary instruments (Pnevmaticheskiye datchiki i vtorichnye pribory) 2d ed., rev. and enl. Moscow, Izd-vo "Energiya," 1965. 192 p. illus., biblio. 11,800 copies printed. Series note: Biblioteka po avtomatike, vyp. 125.

TOPIC TAGS: automation, pneumatic device, pressure transducer, pneumatic control, manometer, heat measurement, remote control system, temperature instrument, pressure measurement

PURPOSE AND COVERAGE: This book is intended for engineers and technicians engaged in the development, adjustment, and operation of pneumatic and automation systems and devices in various fields of industry. It may also be used by students and technicians specializing in the field of automation. Technical requirements and principles of operation, structure, design, and basic characteristics of pneumatic transducers, electro-pneumatic and pneumo-electric converters, and pneumatic gages covered. A comparative analysis of various construction gages and instruments was made. This is the second, revised edition of the author's book "Elements of pneumatic automation for the control of thermal processes," published in 1961.

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SUB CODE: 13,09/ SUBM DATE: 21Jan65/ ORIG REF: 035/

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3/3 7/2/5

PRUSENKO, V.S.

Devices of the pneumatic standard-unit system used in cascade-connected control units. Friborostroenie no.3:1-3 Mr '60.  
(MIRA 13:6)

(Automatic control)

PRUSENKO, Vladimir Sidorovich; CHERVYAKOVSKIY, A.Ts., red.; BUL'DYAYEV,  
N.A., tekhn. red.

[Single-circuit pneumatic control systems for thermal processes]  
Odnokonturnye pnevmaticheskie sistemy avtomaticheskogo  
regulirovaniia teplovых protsessov. Moskva, Gosenergoizdat,  
1963. 142 p. (Biblioteka po avtomatike, no.76)

(MIRA 16:8)

(Pneumatic control)

PRUSENKO, Vladimir Sidorovich; CHERVYAKOVSKIY, A.TS., red.; LARIONOV,  
G.Ye., tekhn. red.

[Multicircuit pneumatic systems for automatic control of  
thermal processes] Mnogokonturnye pnevmaticheskie sistemy  
avtomaticheskogo regulirovaniia teplovyykh protsessov. Mo-  
skva, Gosenergoizdat, 1963. 127 p. (Biblioteka po avtoma-  
tike, no.77) (MIRA 16:11)

(Pneumatic control)

PRUSENKO, V.S.

Selecting the drive of the control element in a pneumatic control  
system. Priborostroenie no.9:14-16 S '63. (MIRA 16:9)  
(Pneumatic control)

ACC NR: AP7001820

SOURCE CODE: UR/0119/66/000/012/0006/0007

AUTHOR: Prusenko, V. S. (Engineer)

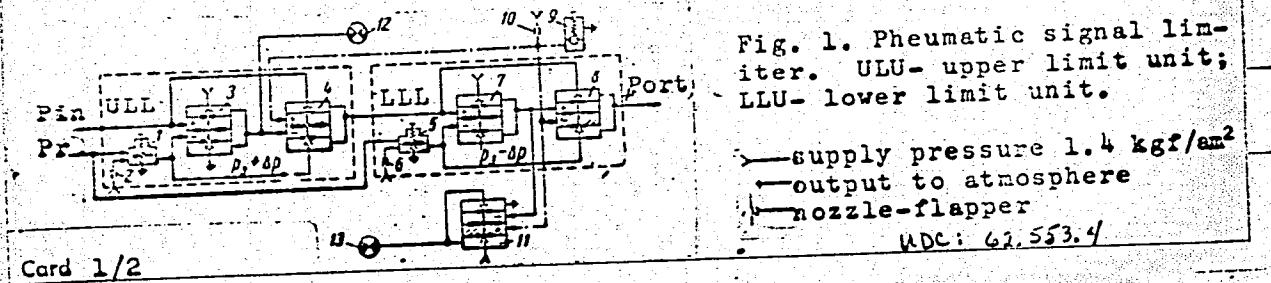
ORG: none

TITLE: The problem of limiting the correcting signal level in pneumatic control systems connected in cascade.

SOURCE: Priborostroyeniye, no. 12, 1966, 6-7

TOPIC TAGS: pneumatic control system, automatic control system

ABSTRACT: In pneumatic control systems connected in cascade it is necessary to limit the pneumatic signal level going from the correcting to the auxiliary regulator to a very small range. A pneumatic system is described which accomplishes this function (see Fig.1). It consists of



ACC NR: AP7001820

two units which set upper and the lower limits for the allowable pneumatic signal level. These limits are set by pneumatic repeaters (1,5) in which the reference pressure  $P_r$  is raised or lowered by  $\Delta p$  derived from the supply pressure and preset manually by means of throttles (2,6). The input pressure pin is compared to these limits (i.e.  $P_r + \Delta p$  and  $P_r - \Delta p$ ) by means of three-membrane adders (3,7) and relays (4,8); if it does not exceed them it is left unmodified at the output. If one of the limits is exceeded the output pressure  $P_{out}$  assumes a value equal to that limit. The additional elements are the manual adjustment unit (g), with restriction (10) for setting a reference pressure for diaphragm relays (4,8,11), and two pneumatic signal lamps. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: none

Card 2/2

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20472  
S/119/61/000/002/004/011  
B116/B203

AUTHOR: Prusenko, V. S.

TITLE: Automatic air supply unit with cold regeneration of silica gel

PERIODICAL: Priborostroyeniye, no. 2, 1961, 10-12

TEXT: The following series of air supply units for general industrial demands is considered to be convenient in the USSR: with a capacity of 1.6, 3.2, 6.3, 12.5, 25, 50, 100, and 200 Nm<sup>3</sup>/hour. The author describes such a unit with cold regeneration of silica gel with a capacity of 6.3 Nm<sup>3</sup>/hour. Its design is very simple and offers safe operation. The diagram shown in Fig. 1 also holds, with small modifications, for a unit with a capacity of 12.5 Nm<sup>3</sup>/hour. The same nomenclature is used in the three figures presented. Usually, the unit consists of a compressor, a two-stage dehydrator, one or two collectors, and the automatic control system. If necessary, the unit includes two compressors, two dehydrators, and two automatic control systems. The unit works as follows: The compressed air containing dust, compressor oil, and moisture having a temperature of 160-180°C passes from the compressor via the oil filter and an intermediate container to the two-stage

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Automatic air ...

dehydrator. In the dehydrator, the compressed air is conducted through the water cooler 1, and cooled down to  $15-20^{\circ}\text{C}$ . The condensate is collected in the steam separator, and drained periodically through an automatically controlled 5CB solenoid valve. From the water cooler, the 100% moist air passes via the 1CB solenoid valve to the left-hand adsorber 2, or via 2CB to the right-hand adsorber 3. Here, the air is conducted through four silica gel elements in which the steam is adsorbed to a relative moisture of  $2 \div 3\%$  (at  $t = 15 \div 20^{\circ}\text{C}$ ). 20-25% of the dried compressed air does not arrive at the collector (from where the compressed air is supplied to the consumers) but is conducted via the rotameter P, the throttle valve 9, and the back-pressure valve 8 to the right-hand adsorber 2, and further via the 4CB or 3CB solenoid valve into the open air. The dry air passing through the adsorber extracts the moisture absorbed by the silica gel during the working process from the latter, and thus prepares the adsorber for the next working cycle. The basic circuit diagram of the automatic control shown in the figure works in the following manner: A reduction of the air pressure in the collector below  $4.2 \text{ kg/cm}^2$  closes the  $\exists\text{KM(M)}$  contact of the contact manometer, and operates the intermediate relay 2P which by its contact 2P-3 connects the start magnet 1M $\sqcap$  (with contacts 1M $\sqcap$ -1 and 1M $\sqcap$ -2) to the current network. This also

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Automatic air ...

guarantees the start of the compressor. Here, the 1 $\gamma$ -1 contact must be closed, and the 1 $\gamma$ -2 contact of the control switch opened. As soon as the compressor starts working, the 3KM(M) contact opens. The compressor, however, is not stopped since the 2P relay remains switched on by its normally opened 2P-1 contact. The compressor works until a pressure of 7 kg/cm<sup>2</sup> is attained in the collector. The starter button 1K1 and the stop button 1K0 are provided for examining the compressor in repairs and adjustments. The start is indicated by the signal lamp 4L. The reduction of air pressure below 4 kg/cm<sup>2</sup> and of the cooling water pressure below 0.5 kg/cm<sup>2</sup> is indicated via pressure controllers 1C and 2C by the signal lamp 1L and the siren Γ. The signaling device is checked by means of the KNC button, and the siren is switched off by means of the intermediate relay 3P (with contacts 3P-1 and 3P-2). The adsorbers are switched by the electromagnetic device of the KEP-12U type, which is indicated by the signal lamps 2L and 3L. The closing and opening of the K-1 and K-2 contacts effects the switching on and off of the solenoid valves 1CB, 4CB and 2CB, 3CB (in Figs. 1 and 2, the first two are open, and the two others closed, adsorber 2 dries, adsorber 3 regenerates). The switching of K-1 and K-2 is done by a cam shaft (driven by the electric motor of the automatic control). One of the princi-

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Automatic air ...

pal features of this unit is the switching of the adsorbers taking account of the saturation of the silica gel with moisture and, thus, also taking account of the moisture of the air coming out of the adsorber. The compressor used is of the piston type since other compressors with the required technical data are not produced in series by the USSR industry. There are 3 figures and 3 Soviet-bloc references.

Legend to Fig. 1: Basic circuit diagram of the automatic air supply unit with cold regeneration of silica gel: 13) air inlet, 14) compressor, 15) air filter, 16) oil filter, 17) intermediate container, 18) dehydrator, 19) silica gel, 20) cooling water, 21) drain, 22) collector, 23) filter, 24) dried compressed air to consumers, 25) from the reserve compressor and dehydrator.

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Automatic air ...

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Fig. 1 - See card 8/8

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Legend to Fig. 2: Basic circuit diagram of the automatic control of the air supply unit: 1) motor of the compressor.

Legend to Fig. 3: Total view of the dehydrator of the automatic air supply unit with cold regeneration of silica gel with a capacity of 6.3 (12.5) Nm<sup>3</sup>/hour: 1) water cooler, 2) and 3) silica gel adsorbers, 4) steam separator, 5)-8) back-pressure valves, 9)-11), 15), 16) check and regulating valves, 12)-14) check valves, 17) control panel; 1CB - 6CB solenoid valves, 1M-3M indicating manometer, 3KMelectrocontact manometer, 1C and 2C

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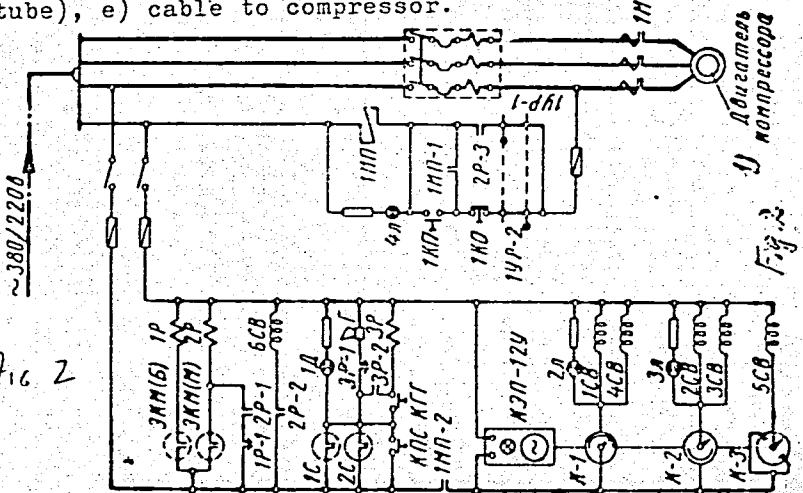
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Automatic air ...

pressure drop indicator without scale, P - rotameter, K37-12V electropneumatic automatic control, 1<sup>st</sup> - 4<sup>th</sup> signal lamps, 1<sup>st</sup> and 2<sup>nd</sup> control switch, 1KO, 1KU, KPC, KIT control buttons, siren, K cable boxes; a) air inlet (from the compressor) (1" tube), b) outlet of dried air to the collector (1" tube), c) cold-water inlet (1/4" tube), d) hot-water outlet (1/4" tube), e) condensate outlet (1/4" tube), e) cable to compressor.



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Automatic air ...

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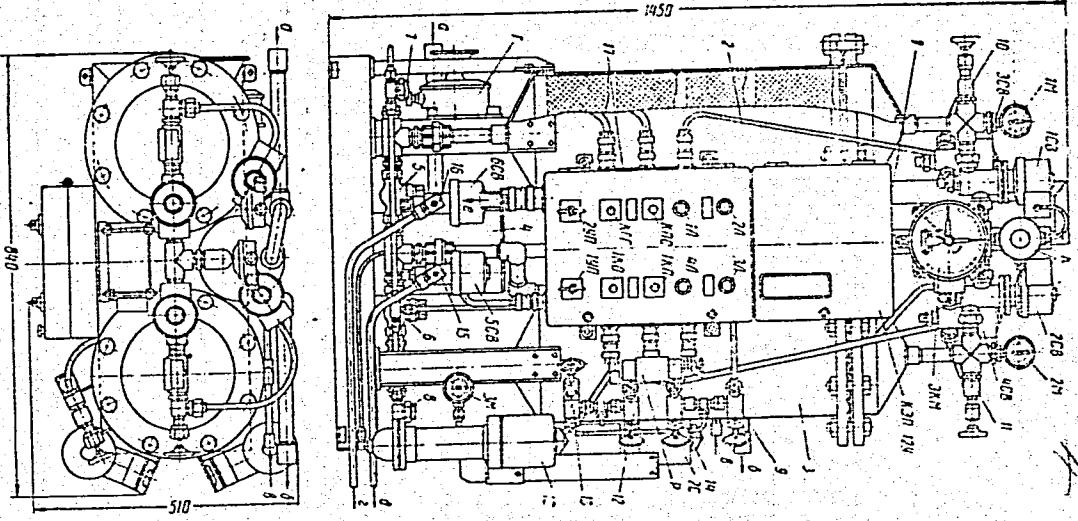


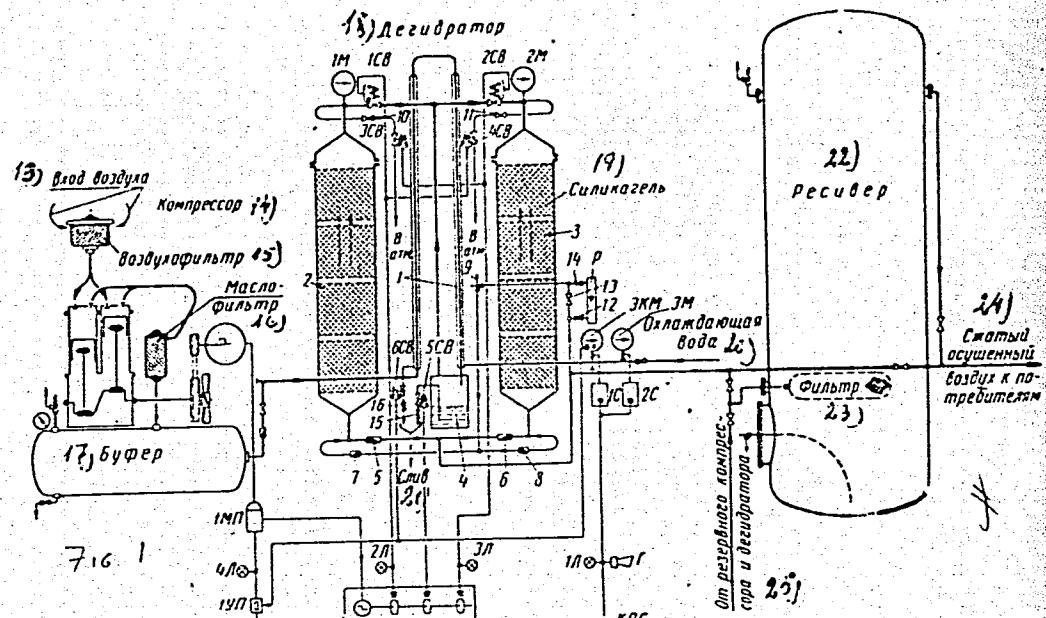
Fig. 3

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119-58-6-3/13

AUTHOR:

Prusenko, V.S.

TITLE:

An Automated Air-Conveying Plant (Avtomatizirovannyye  
ustanovki vozdukhosnabzheniya)

PERIODICAL:

Priborostroyeniye, 1958, Nr 6, pp. 11-16 (USSR)

ABSTRACT:

In many cases air, which is already compressed and purified, is used as an energy carrier for switching- and control processes in automatic systems. The two air-conveying apparatus UVSA- 25 and UVSA-50 are described in detail, which are the prototypes for the apparatus UvSA-5; UVSA -12,5; USVA -100; UVSA -250. The figures 5; 12,5 etc. denote the number of standard cubic meters of air per hour conveyed by the apparatus. The compressed air is purified and dried. The apparatus UVSA -25 and UVSA -50 consist of two and three compressors respectively (one of them always being at rest and kept in reserve). a two-stage dehydrator, one or two receivers, and an automatic control desk. The following are the most important data of these apparatus:

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## An Automatized Air-Conveying Plant

119-58-6-3/13

	UVSA-25	USVA-5
Maximum efficiency in Nm <sup>3</sup> /h	50	50
Number of compressors	3	3
Number of receivers	2	2
Cubic capacity of the receiver in m <sup>3</sup>	3	3
Maximum pressure at which the compressors stop automatically, expressed in kg/cm <sup>2</sup>	6	6
Minimum pressure at which the compressors are automatically connected, expressed in kg/cm <sup>2</sup>	4.2	4.2
Pressure at which the breakdown-signaling-device is connected, expressed in kg/cm <sup>2</sup>	3.9	3.9
Minimum air pressure in the receiver with a normal operation of apparatus and control devices being retained, expressed in kg/cm <sup>2</sup>	2.1	2.1
Uninterrupted operation period of compressors in the case of a maximum performance of the apparatus, expressed in min.	64.8	64.8
Pause in the operation of compressors in the case of a maximum performance of the apparatus, expressed in min.	13	13
Air pressure reserve (in case of breakdowns) in the case of a maximum of performance, expressed in min.	13	13
Temperature of air purification expressed in °C	-30	-30

Card 2/3

## An Automatized Air-Conveying Plant

119-58-6-3/13

A complete apparatus comprises a piston-compressor (one-stage, two air-cooled cylinders) with the following characteristics:

Power output expressed in Nm/h 30

Working pressure expressed in kg/cm<sup>2</sup> 6-7

Number of cylinders 2

Diameter of cylinder in mm 78

Stroke in mm 85

Revolutions of main shaft per minute 950

Buffer volume in liters 22

Electromotor:

a) Type of current three-phase alternating current

b) Voltage in V 380/220

c) Power output in KW 4.5

d) Number of revolutions/min. 950

Detailed technical data are also given for the dehydrators. There  
are 4 figures.

1. Pneumatic systems—Equipment    2. Pneumatic systems—  
Control systems    3. Compressed air—Processing

Card 3/3

U.S.S.R., V.S.

## 28(1) PHASE I BOOK EXPLORATION SOY/2702

Akademicheskii nauchnyi SSSR. Institut Avtovozdushnoi i telemekhaniki. Itelmechhanika. Seminar po pnevmogidravicheskoy avtomatike. Itelmechhanika. 1957  
Sistemy, ustroystva i elementy pnevmo-i hidroavtomatiki. Laboratoriya po avtomaticheskym i hidraulicheskym ustroystvam i elementam. Izdatelstvo Akademii Nauk SSSR. 1959. 233 p. Errata slip inserted. 2700 copies printed.

Responsible Ed.: M. A. Ayzerman, Doctor of Technical Sciences, Professor; Tech. Ed.: T. P. Polyanina.

Editor of Publishing House: A. A. Taiti. Tech. Ed.: T. P. Polyanina.  
PURPOSE: This collection of papers is intended for scientific research workers and engineers in the field of design and construction of pneumatic and hydraulic equipment and accessories for automation.

COVERAGE: This collection contains papers read at the Seminar on Pneumatic and Hydraulic Devices for Automation, May 28, 1957. The collection is divided into the following three groups: 1) newly developed pneumatic and hydraulic circuits; 2) pneumatic and hydraulic devices, including regulating units, transmitters, and transducers, actuating mechanisms, special-purpose devices, and auxiliary equipment; and 3) elements of pneumatic and hydraulic devices for automation, such as controlled and permanent nozzles and diaphragms. No personalities are mentioned. References follow several of the papers.

Berezovskii, G. P. Pneumatic Ratio Controllers 122

Without Mechanical Dividers

Types RS-1 and RS-2 ratio controllers are described. The change of ratio in relation to the throttle opening and the primary pressure is discussed.

Zalmanzon, I. A. and A. I. Semikova Designing a Non-Linear Transformation in Pneumatic Systems by Means of a Nozzle-Tube Type Element 128

This paper discusses the first stage of an investigation made at the Laboratory for Pneumatic and Hydraulic Automation, IATAN SSSR. The characteristics of a pneumatic nozzle-tube-type relay consisting of a nozzle and diaphragm are described. The functioning and possible uses of this device are given with schematic diagrams of the relay and photographs of the experimental installation are shown.

Berezovskii, Yu. I. Possibility of Controlling a Pneumatic Regulator with Automatic Response to Load Changes 148

Prusenskiy, Yu. I. External Pneumatic Regulator, 155

The basic principles of an external regulator for maintaining certain maximum or minimum values in an automated system are discussed. A schematic diagram is presented, and the construction is described. Results of laboratory testing are given.

Auxiliary Equipment

MIF Shcheglyev, Yu. S. Automatic Installation for Compressed Air Drying 165

A description is given of an installation with units of simple construction (rotary liquid piston compressor and two-stage dehydrator) for securing a continuous supply of clean and dry compressed air.

PRUSENKO, V.S.

Automatic control of air-feed units. Priborostroenie no. 6:11-  
16 Je '58. (MIRA 11:7)

(Electric controllers)  
(Compressed air)

PRUSENKO, V. S.

"AUtomatic Installation for the Air Supply of Systems of Industrial Automation by Pressurized Air."

report presented at the Scientific Seminar on Pnsumo-Hydraulic Automation, 28-29 May 1957, at the Inst. for Automation and Remote Control (IAT), Acad. Sci. USSR

Avtomika i Telemekhanika, 1957, Vol. 18, No. 12, pp. 1148-1150, (author SEMIKOVA, A. I.)

ARKHIPOV, G.V.; ASAFOV, V.N.; PRUSENKO, V.S.

The AUS devices in industrial air-conditioning units. Priborostroenie  
no. 384-7 Mr. '62. (MIRA 15:4)  
(Air conditioning. Equipment and supplies) (Electronic control)

PRIUSENKO, Vladimir Sidorovich; CHERVYAKOVSKIY, A.Ts., red.; VORONIN, K.P.,  
tekhn. red.

[Elements of pneumatic control for the regulation of thermal  
processes] Elementy pnevmoavtomatiki dlia regulirovaniia teplo-  
vykh protsessov. Moskva, Gos. energ. izd-vo, 1961. 271 p.  
(Biblioteka po avtomatike, no.37) (MIRA 15:1)  
(Pneumatic control)

PRUSENKO, Vladimir Sidorovich; CHERVYAKOVSKIY, A.TS., red.

[Pneumatic transducers and secondary devices] Pnevmaticheskie datchiki i vtorichnye pribory. 2., perer. i dop. izd. Moskva, Energiia, 1965. 192 p. (Biblioteka po avtomatike, no.125) (MIRA 18:4)

PRUSENKO, A.S.

Evaporation from the surface of the Black Sea. Okeanologija 2  
no.1:51-58 '62. (MIRA 15:2)

1. Observatoriya Odesskogo gidrometeorologicheskogo instituta.  
(Black Sea--Evaporation)

PRUSENNOV, A.S.

Results of using the R.N. Ivanov wavemeter-perspectograph for measuring  
ocean waves and currents along the seashore. Meteor.i gidrol. no.2:39-  
40 Mr-Ap '55. (MLRA 8:7)

(Waves) (Ocean currents)

PRUSENNOV, A. S.

AID P - 1870

Subject : USSR/Meteorology and Hydrology

Card 1/1 Pub. 71-a - 13/26

Author : Prusennov, A. S.

Title : Experiments with the use of the wave perspectometer  
of R. N. Ivanov to gauge sea waves and currents at  
the shore.

Periodical : Met. i gidro., no.2, 39-40, 1955

Abstract : The author reports a series of surveys underway in  
Odessa since 1951 using the wave-perspectometer and  
theodolites. The surveys with the wave-perspectometer  
proved to be successful and its use is recommended.  
However, some recommendations are made for the improve-  
ment of the design of this instrument. Three tables  
are given.

Institution : None

Submitted : No date

PRUSETSKIY, B., inzh.

Industrialization of construction in Georgia. Sel', stroi.  
16 no.6:6-7 Je '61. (MIRA 14:7)  
(Georgia--Precast concrete construction)

PRUSEVICH, B. (Drogobych)

Tranching shovel. Radio no.6:46 Je '56.  
(Shovels)

(MLRA 9:8)

PRUSEVICH, B. (Drogobych)

Automatic switching-in of emergency lighting. Radio no. 6:46-47  
Je '56. (MLRA 9:8)  
(Electric lighting)

BRUNNICH, F.O.

Formation of capsules around the larvae of Anisakis sp. in the tissues of the bullhead Myoxocephalus scorpius. Trudy MBI no. 5:265-273 '64. (MIRA 17:4)

1. Laboratoriya srovritel'noy i eksperimental'noy embriologii (zav. - B.P.Tokin) Murmanskogo morskogo biologicheskogo instituta.

VERBAYEV, V.V.; PRUDNIKOV, Yu.V.; PRUDNICH, T.O.

Morphological changes in fish tissues around the larvae of some  
parasitic worms. Trudy MAMI no.3:251-264 1981 (MIRA 1984)

Laboratoriya srednichnykh i nekperimental'nykh zberiologii  
(avt. L.R.P. Tokin) Nizhnevolzhskogo morskogo biologicheskogo instituta.

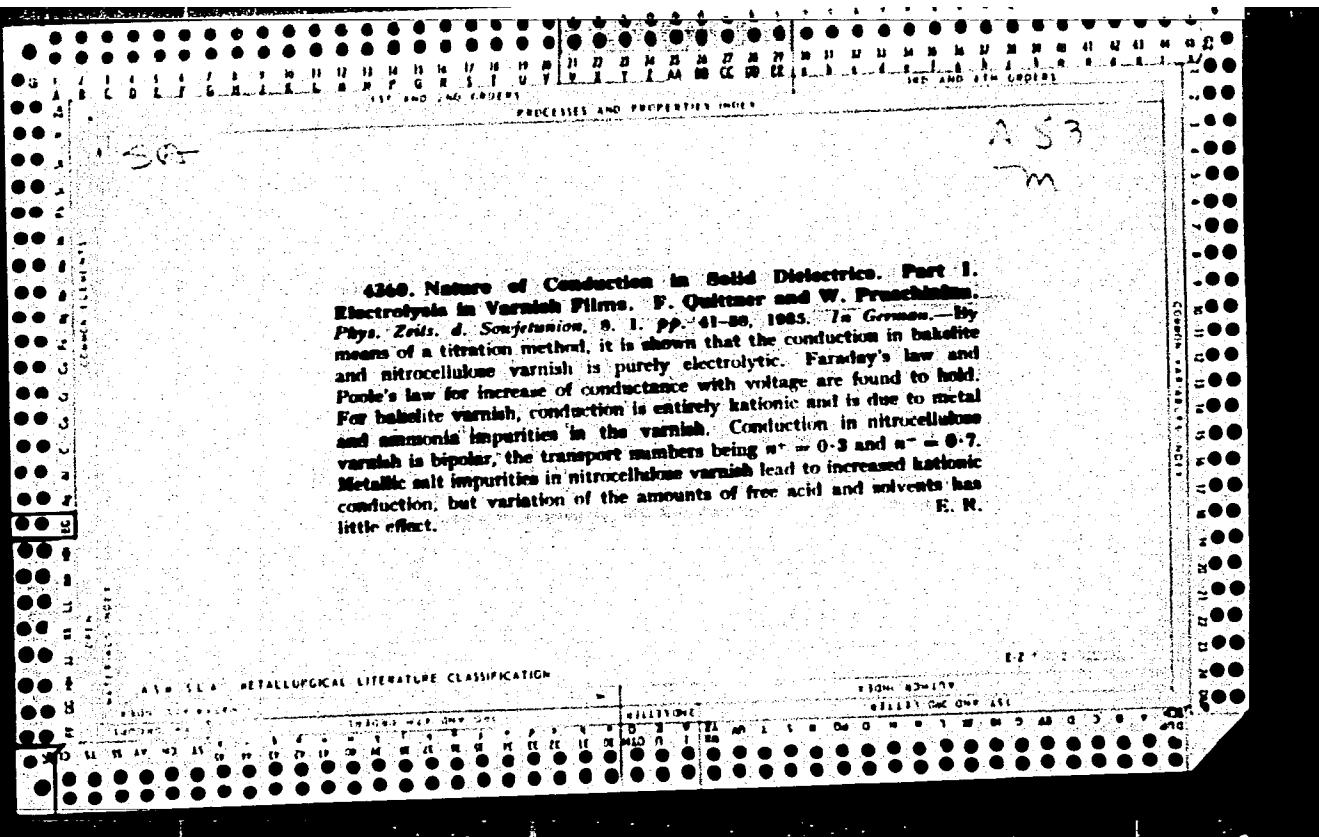
ZLATOPOL'SKIY, A.N.; ZAVADSKIY, I.M.; PRUZNER, S.L.

"Effective use of secondary power resources" by N.M.  
Vilenskii. Reviewed by A.N.Zlatopol'skii, I.M.Zavadskii,  
S.L.Pruzner. Prom.energ. 19 no. 4:60-61 Ap '64. (MIRA 17:5)

PRIMUS, Emil, inz.

Tests of hand drill hammers, Rudy 12 no.5,143-149 My '64.

1. Research and Development Worksite, FPK National Enterprise,  
Prague.



PRUCSI, A.

PRUCSI, A. Technology of plywood peeling. p.249. Vol. 4, no. 8, Aug. 1954.  
FAIPAR. Budapest, Hungary.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4—April 1957

PRUSEK, A.

PRUSEK, A. The problems of vocational training. p.2<sup>5</sup>.

Vol. 6, No. 10, Oct. 1955

POLSKA MIEJSKA DRUGA WYDW

TECHNOLOGY

Warszawa, Poland

Sc: East European Accession, Vol. 5, No. 5, May 1956

Prosecky, V.S.

P.R.S., U.S.

Aeromatic air-supply units with a cold regeneration of air supply.

Patent certificate no. 2,101,121 F '61.

(Compressed air)

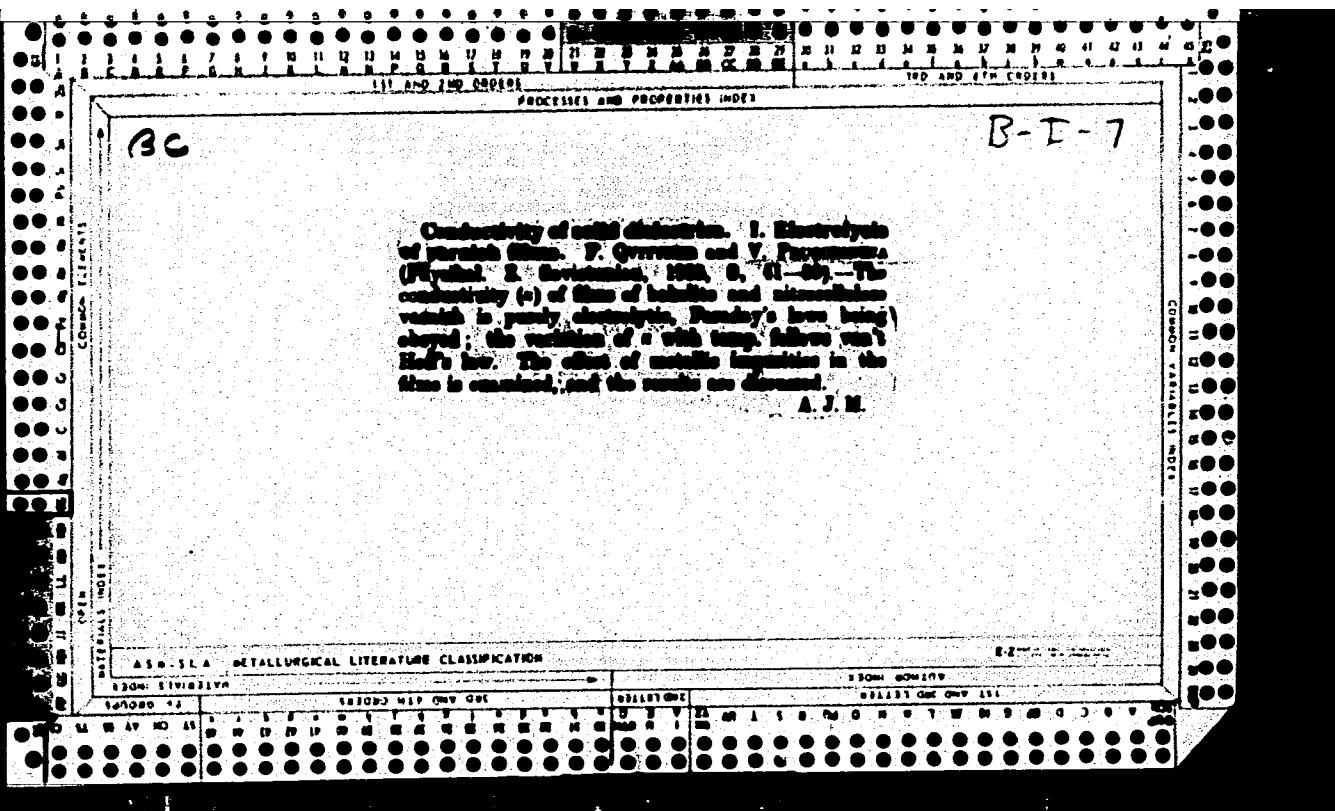
KLYUSHKINA, A.V.; PRUSEVICH, A.M.; SKOBELEV, Yu.D.

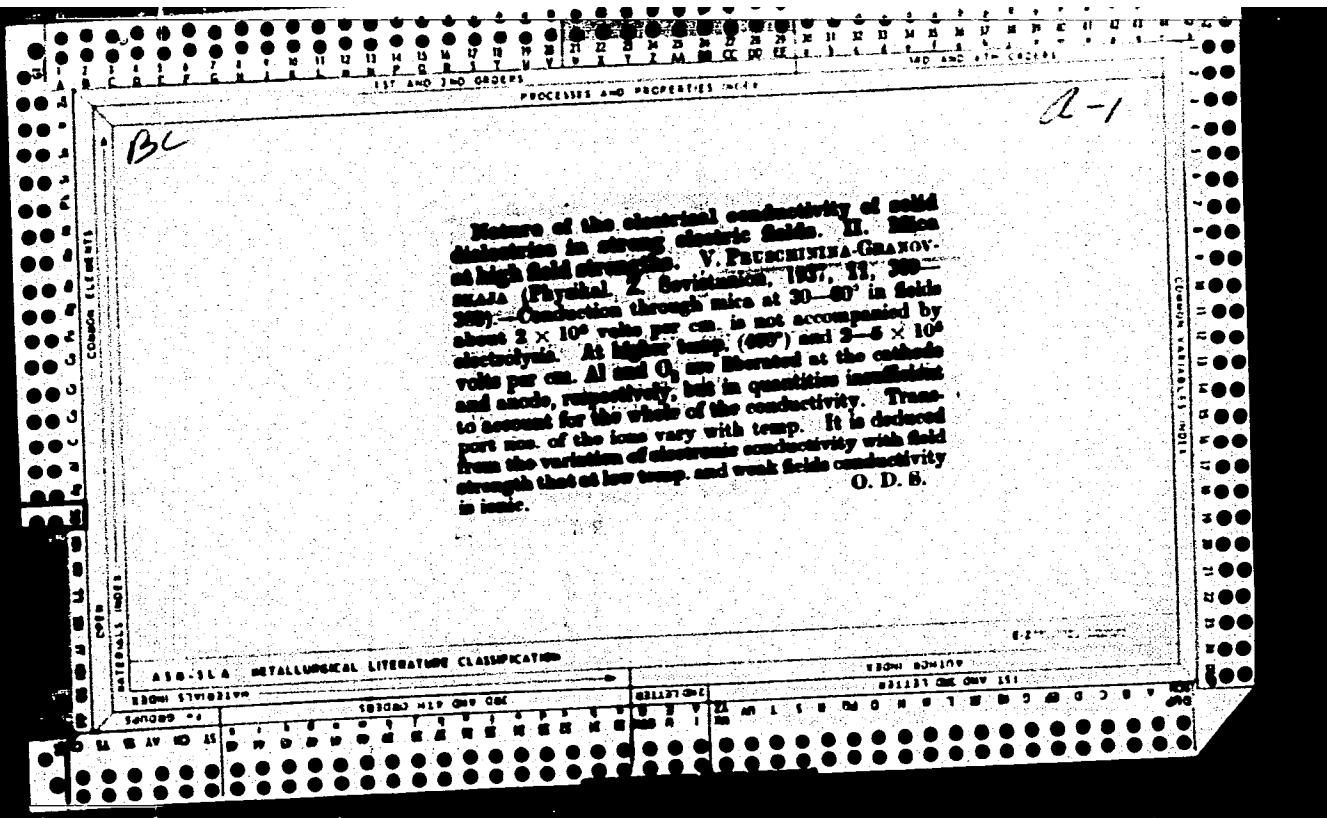
Alkali gabbroid rocks in the Kiya-Shaltyr' Massif. Mat.po  
geol.Zap.Sib. no.64:46-77 '63. (MIRA 17:4)

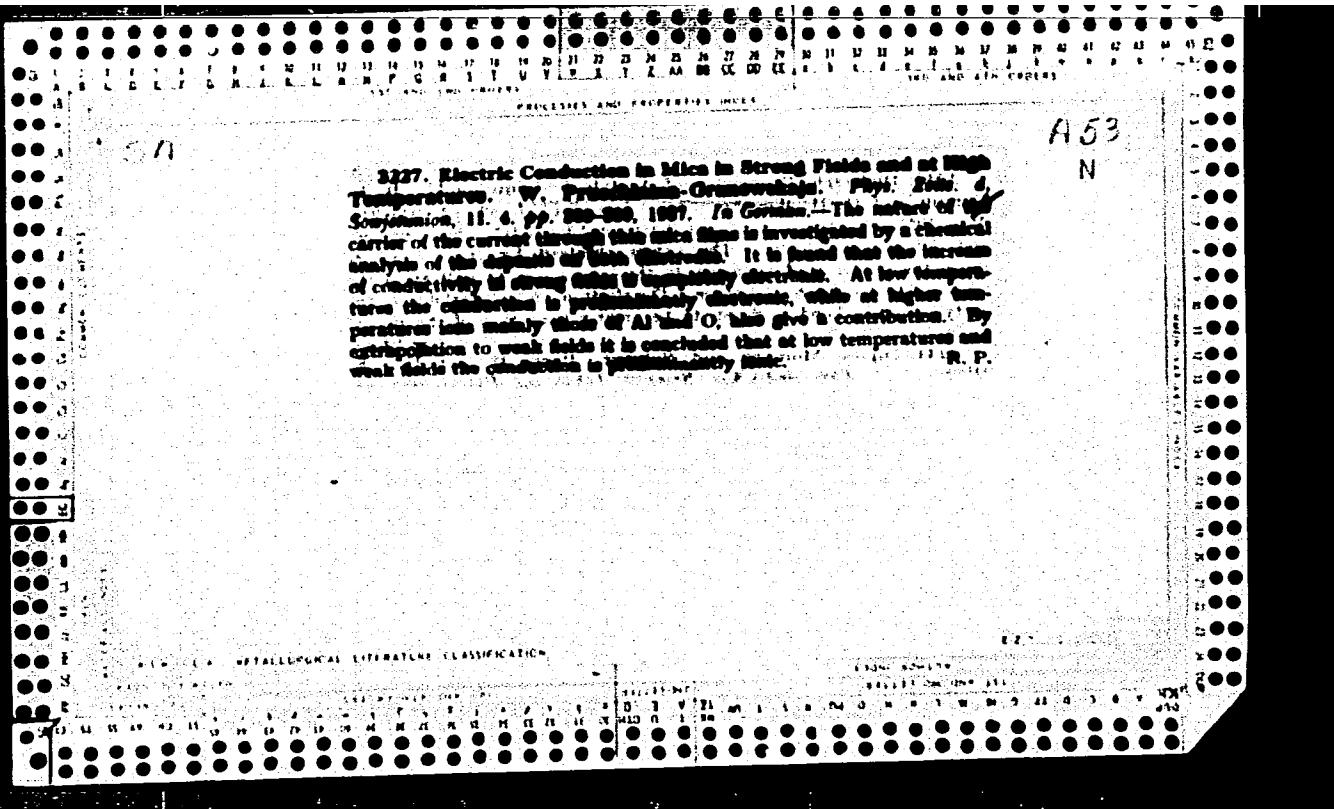
PRUSHININA V.

*W* *2*  
*4/2*  
*4/2*  
Nature of electrical conductivity of solid dielectrics in strong electrical fields. II. Mica at high field strengths.  
V. Prushinina-Gromovskaya. Physik Z. Sowjetunion 11, 369-80 (1937) (in German); cf. preceding abstract. The addnl. cond. which is found at high field strengths has an electronic character at all temps. At low temps, the cond. is predominantly by electrons. At high temps, the cond. has a mixed nature. The cond. by ions is bipolar and occurs through ions of Al and O. The transport nos. are functions of the temp. The analysis of the dependence of the electronic cond. on the field shows that for mica in weak fields and at low temps. ionic conduction predominates.  
Harold Gershinowitz

*G*  
Cyclotron, A. S. Maslov. U.S.S.R. 69,550, Oct. 31,  
1947.  
M. H.







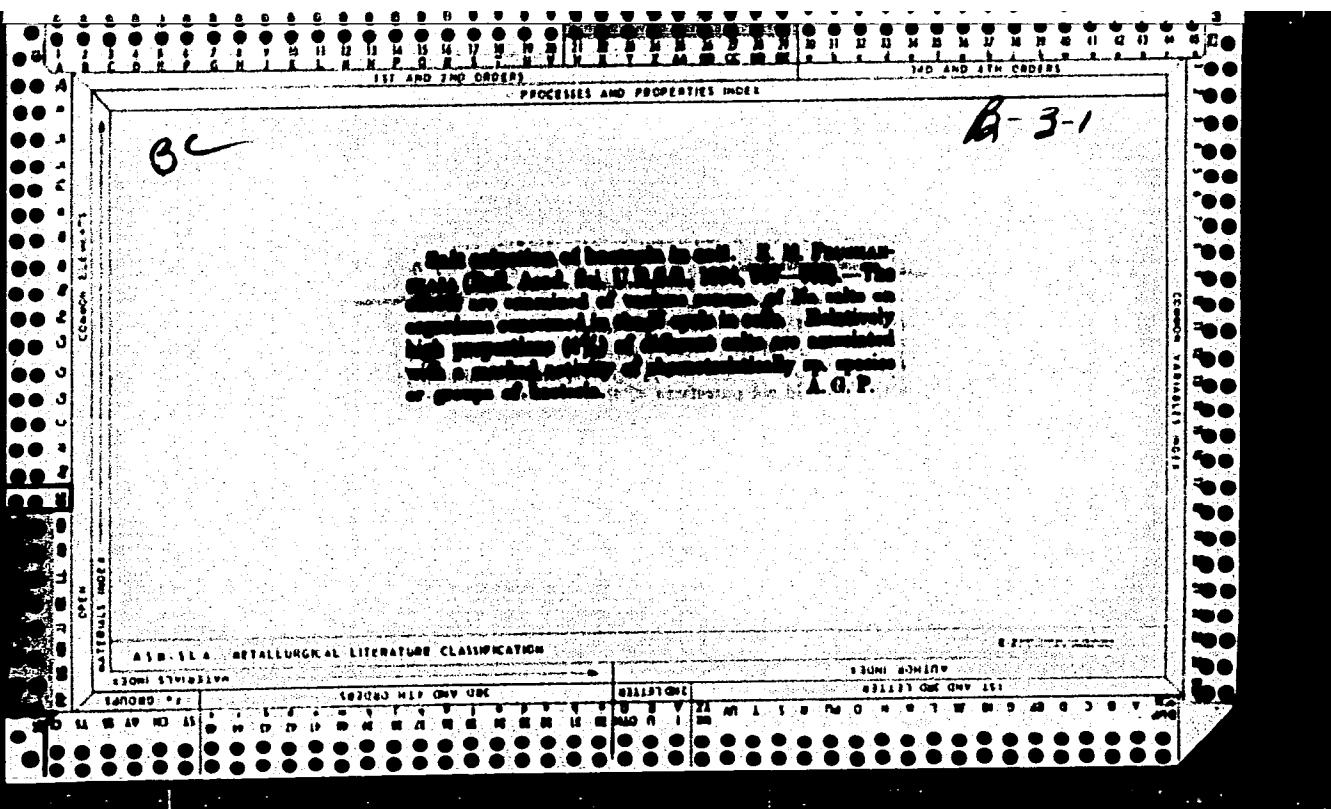
*Ch*

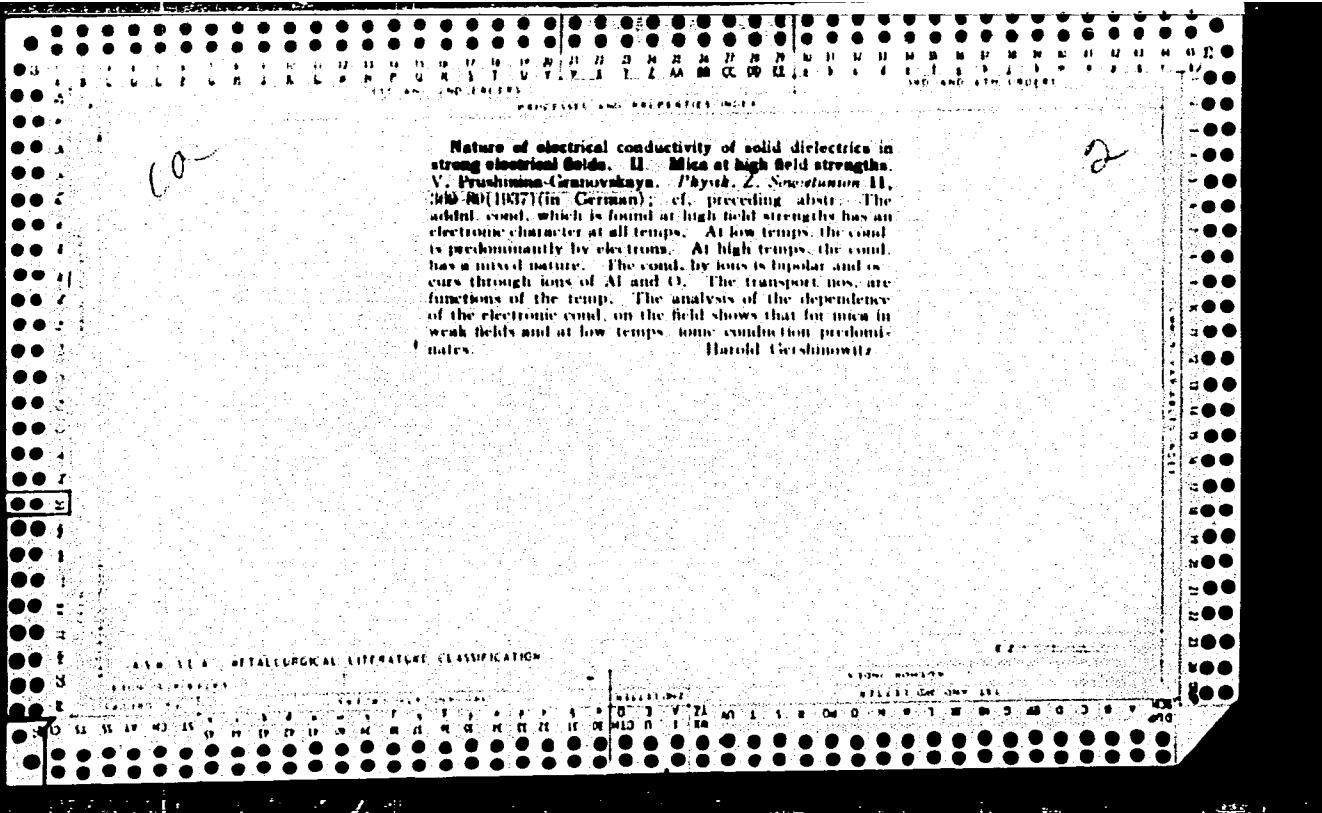
The nature of the conductivity of solid dielectrics. I  
Electrolysis of lacquer films. F. Quitterer and V. Puschin  
*Z. Physik. Z. Sonderheft* 8, 41-58 (1935). Bakelite,  
nitro, and nitrocellulose lacquers were investigated. The  
cond. is due to electrolysis and agrees with Faraday's  
law. The cond. of the Bakelite is cationic and due to  
metals or NH<sub>3</sub> as impurities. In the nitrocellulose it is  
dipolar; the transference nos. are  $n^+ = 0.3$ ,  $n^- = 0.2$ .  
Ions migrated into the Bakelite and nitro lacquers but  
not into the nitrocellulose. The behavior of the latter is  
explained as due to immobile H<sub>3</sub>O<sup>+</sup> or the formation of  
protons by the lacquer substance. R. E. DeRicht.

## TABLE METALLURGICAL LITERATURE CLASSIFICATION

1941-1945

1946-1950





CZECHOSLOVAKIA/Virology - Plant Viruses.

D-2

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 26091

Author : Prusha

Inst :

Title : Methods for the Identification of Potato Virus;  
the Practical Application of These Methods.

Orig Pub : Socialist. zemed., 1956, 6, No 17, 1045-1049

Abstract : No abstract.

Card : /1

KOROLYUK, A.P.; PRUSHCHAK, T.A.

New type of quantum oscillations of the absorption coefficient  
of ultrasound in zinc. Zhur. eksp. i teor. fiz. 41 no.5:1689-1691  
(MIRA 14:12)  
N '61.

1. Institut radiofiziki i elektroniki AN Ukrainskoy SSR.  
(Quantum theory)  
(Adsorption of sound)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420001-3

Prushenkov, A. S., Change of the bottom relief in the Gulf of Odessa as a result of the 5 February 1953 slide Tr. Odessk. gidrometeorol. in-ta (Works of the Odessa Hydrometeorological Institute), No 13, 1957, p 117-122; (RZhGeogr 7/58-16543)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420001-3"

L 18270-65 EWT(1)/EPR/EWA(h)/EWA(m)-2 Ps-4/Peb WW  
ACCESSION NR: AP4048840 S/0119/64/000/011/0022/0025 /7

AUTHOR: Makhachek, M.; Prushek, I.; Tatibor, K. /3  
8

TITLE: Transistorized level indicator (from the experience of instrument design in  
Czechoslovakia)

SOURCE: Priborostroyeniye, no. 11, 1964, 22-25

TOPIC TAGS: level indicator, liquid level indicator 25

ABSTRACT: A transistorized contactless level indicator is described whose operation depends on a capacitive electrode placed in a tank and connected to the oscillatory circuit of a h-f oscillator. Two types of the instrument have been developed: (1) With a h-f oscillator built in a cylindrical capacitive electrode; this type operates within -10 + 50C; (2) With a h-f oscillator placed outside the tank; this type can operate at higher temperatures. Design details are given. The level indicator has been used in practice for automatic batching in synthetic-

Card 1/2

L 18270-65

ACCESSION NR: AP4048840

rubber, paint-manufacturing, glass-manufacturing and other industries. The indicator can also be used for indicating the level of grainy material, fuel in tank-cars, etc. Orig. art. has: 6 figures.

ASSOCIATION: SVUDM (Praha)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, EC

NO REF SOV: 000

OTHER: 000

Card 2/2

PRUSÍK, B., Dr; TODOROVICOVÁ, H., Dr.

Czechoslovakia

Fourth Internal Clinic of Charles University in Prague  
-- Prague (IV. vnitřní klinika University Karlovy v  
Praze -- Praha); Director: Prof M. FUČÍK, Dr. - (for all)

Prague, Vnitřní lékařství, No 1X-1, 1963, pp 45-51

"Changing Pattern of Pneumonia during Recent Years."

PRUSIK, Bohumil

The centenary of the Union of Czech Physicians. Vestnik CSAV 71 no.4:  
384-390 '62.

1. Clen korespondent Ceskoslovenske akademie ved.

PHASE I BOOK EXPLOITATION

SOV/1888

25(1)

Moscow. Vyssheye tekhnicheskoye uchilishche  
Prokatnyye stany i tekhnologiya prokatki; sbornik statey (Rolling Mills and Processing by Rolling; Collection of Articles) Moscow, Mashgiz, 1958.  
208 p. (Series: Its: [Trudy] 84) Errata slip inserted. 3,000 copies printed.  
Ed.: A.I. Tselikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: L.A. Osipova; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S.Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for workers of scientific-research institutes and plants, teachers, aspirants, and students specializing in the field of rolling mill engineering.

COVERAGE: This book is composed of theoretical and experimental works and proceedings presented at MVTU imeni Baumana (Moscow Higher Technical School imeni N.Ye. Baumana) by the Department of Machinery and Processes of Rolling and Drawing. It covers the theory of rolling and manufacturing methods described as new. The articles deal with the problem of determining forces in a planetary mill, the study of the

Card 1/5

SOV/1888  
Rolling Mills and Processing (Cont.)  
on rolls, with consideration being given to the elastic flattening of rolls.  
Zhavoronkov, V.A., Candidate of Technical Sciences, and Ye.A. Zhukovich -  
Stosha, Engineer. Basic Parameters of the Tools of Mills for Rolling  
Periodic Shapes 106  
The author discusses the basic types of rolls for three-roll periodic  
shape rolling mills, giving recommendations for selecting wear-  
resistant material for tools and a graphic method for designing tracers  
for new mills.

Grishkov, A.I., Engineer. Investigation of Spreading During Rolling in Plain Rolls 118  
Grishkov, A.I., Engineer. Dependence of the Average Unit Pressure and the Width of a Strip During Hot Rolling in Plain Rolls 172  
In this article and the preceding one the author deals with problems connected with the theory of spreading and derives related equations. He also presents experimental material on the effect of strip width on spreading and average unit pressure, thus confirming the theory of spreading developed by A.I. Tselukov.

Card 4/5

L 50731-65 IJP(c) JD	EWP(e)/EPR/EWP(t)/EWP(k)/EWP(z)/EWP(b)	Pf-4/Pb-4/Pb	DIAAP/
ACCESSION NR: AP5016337	PO/0046/65/010/002/0095/0106		
AUTHOR: Herczynska, Elwira (Gerchin'ska, E.); Proszynska, Krystyna (Prushin'ska, K.)	32 B		
TITLE: Adsorption of trace amounts of radioactive anions and cations on AL surfaces 19			
SOURCE: Nukleonika, v. 10, no. 2, 1965, 95-106			
TOPIC TAGS: radiation chemistry, adsorption, aluminum			
ABSTRACT: The adsorption of $^{137}\text{Cs}^+$ , $^{45}\text{Ca}^{2+}$ , $\text{H}^+$ , $\text{OH}^-$ , $^{131}\text{I}^-$ , $^{35}\text{S-SO}_4^{2-}$ , and $^{32}\text{P-PO}_4^{3-}$ on Al powders was determined by potentiometric and radiometric methods. The aim was to continue, enlarge, and verify the results obtained in previous works concerning the adsorption of ions on various metal and oxide surfaces as a function of pH and the concentration of the solution. The form of the adsorption isotherms is proposed and some calculations were performed. Orig. art. has 4 graphs, 3 tables, and 9 formulas.			
ASSOCIATION: Department of Radiochemistry, Institute of Nuclear Research, Warsaw			
SUBMITTED: 09 May 64	ENCL: 00	SUB CODE: QC, MP	
NO REF Sov: 004	OTHER: 022	MA	
Card 1/1 ml			

GROTT, Ewa; PRUSINSKI, Antoni; SZCZECINSKA, Olimpia

On the protein of the treatment of multiple sclerosis with D-860  
with special reference to the behavior of pyruvic acid. Pol. tyg.  
lek. 17 no.42:1631-1635 15 0 '62.

1. Z I Kliniki Chorob Wewnętrznych AM w Łodzi; kierownik: prof. dr  
nauk med. J.W. Grott i z Kliniki Chorob Nerwowych AM w Łodzi; kierownik:  
prof. dr nauk med. E. Herman.  
(TOLBUTAMIDE) (MULTIPLE SCLEROSIS) (PYRUVATES)

SLADKI, Edward; PRUSINSKI, Antoni

Treatment of apoplexy with a theophylline derivative & ephedrine  
in the light of recent pathogenetic theories. Polski tygod. lek.  
14 no.18:835-838 4 May 59.

1. Z I Kliniki Chor. Wewn. A.M. w Lodzi; kierownik prof. dr nauk  
med. J. W. Grott i z Kliniki Chorob Nerw. A.M. w Lodzi; kierownik  
prof. dr Nauk med. E. Herman). Adres: Lodz. ul. Armii Ludowej 21 m.  
9.

(CEREBRAL HEMORRHAGE, ther.  
ephedrine-7-(2-hydroxyethyl)-theophylline-theophylline  
prep. (Pol))  
(EPHEDRINE, ther. use  
apoplexy, ephedrine-7-(2-hydroxyethyl)-theophylline-  
theophylline prep. (Pol))  
(THEOPHYLLINE, ther. use  
same)

LISIECKA-ADAMSKA, Halina; PRUSINSKI, Antoni

Is there any parallelism between lesions of the peripheral nervous system & vascular changes? Polski tygod. lek. 14 no.22:1003-1006  
1 June 59.

1. (Z I Kliniki Chorob Wewnętrznych i z Kliniki Chorob Nerwowych A. M. w Łodzi; kierownicy: prof. dr n. m. J. W. Grott i prof. dr n.m. E. Herman). Otrzymano: 7.1.1959; adres: Łódź, ul. Wieckowskiego 56.  
(NERVES, PERIPHERAL, dis.  
relation to vasc. changes (Pol))  
(BLOOD VESSELS, physiol.  
changes in peripheral nerves lesions (Pol))

~~PRINTED ON~~

More concern for the health of workers. Sov.profsoiuzy 5  
no.6:72-73 Je '57. (MLRA 10:7)

1. Strakhovoy vrach TSentral'nogo komiteta profsoyuza rabochikh  
elektrostantsiy i elektropromyshlennosti.  
(Ivanovo Province--Industrial hygiene)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420001-3

PRUSHINSKIY, A.

Diet-kitchens in industry. Sov.profsoiuzy 4 no.1:38-40 Ja '56.  
(Diet-kitchens) (MLRA 9:4)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420001-3"

PRUSHINSKIY,A.

With the help of active members. Sov.profsoiuzy 3 no.7:48-50  
J1'55. (MIRA 8:10)

1. Strakhovoy vrach TSentral'nogo komiteta profsoyuza rabochikh  
elektrostantsiy i elektropromyshlennosti  
(Chelyabinsk--Insurance, Health)

17(8)

SOV/91-59-6-26/33

AUTHOR:

Prushinskiy, A.V.

TITLE:

Equipment Used for Reviving Persons Stricken by Electric Current

PERIODICAL:

Energetik, 1959, Nr 6, pp 34-35 (USSR)

ABSTRACT:

The article stresses the importance of having adequate equipment for rendering first aid to persons stricken by electric current. The available number of methods and devices for such cases has been supplemented recently by an artificial respiration device "DP-1", made by the plant of oxygen apparatus "Respirator". The device is simple, can use a mixture of oxygen and air. It consists of an oxygen container, an electric motor fed from a network or from a battery, and a compressor providing 20 rhythmical breathing pulsations per minute. It costs about 1,100 rubles. The Ministry of Health is presently testing the experimental models of an English-made rocking stretcher.

Card 1/3

Equipment Used for Reviving of Persons Stricken by Electric Current

SOV/91-59-6-26/33

A new device "defibriliyator" has been constructed after long and extensive experiments conducted by the Laboratoriya eksperimental'noy fiziologii Akademii meditsinskikh nauk SSSR (Laboratory for Experimental Physiology of the Academy of Medical Sciences of the USSR) and by the Vsesoyuznyy elektrotekhnicheskiy institut imeni V.I. Lenina (All-Union Electrotechnical Institute imeni V.I. Lenin). It is simple, compact and effective in treatment of cases of electric trauma within the subsequent 7-8 minutes. It has been tested, received the best references from outstanding Soviet surgeons, and recommended for mass-production by the Presidium of the Academy of Medical Sciences. Unfortunately, the production of this device is lagging due to a shortage of small-size capacitors. In a footnote, the editing staff points out numerous futile attempts of the Ministry of Health, the VEI, and the Central Committee of the Trade Union of Workers of Power Plants and Electric Industry to have the Moscow

Card 2/3

Equipment Used for Reviving of Persons Stricken by Electric Current  
SOV/91-59-6-26/33

oblast' Sovnarkhoz start its production. The plant "Kondensator" in Serpukhovo, Moscow oblast' Sovnarkhoz, has already made a consignment of small capacitors for the defibrillators. The article gives no data on the defibrillator's design.

Card 3/3

PRUSHKOV, I. T.

Obrabotka rezaniem nagretykh detalei-sovetskii, a ne amerikanskii sposob. (Vestn. Mash., 1951, no. 5, p. 48.

Includes bibliography.

The method of cutting preheated machine parts is a Soviet and not an American invention.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420001-3

PRUSKOV, F. T.

"Cutting Conditions for Machining s63 Steel", Stanki I Instrument, 14, No. 11-12, 1943.

ER-52059019.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343420001-3"

FRANCOV, I. T., Docent

Candidate of Technical Sciences

Review of Lukovodyashchiye materialy po rezhiman rezaniya (Information for Foremen on Metal-Cutting Conditions). Edited by S. D. Tishin. Stanki I Instrument Vol. 15, No. 6, 1944.

BR-52059019